

4. Ebola glycoprotein  
4. EbolaGlyc 120 130  
[ 30 ] KPDGSECLPAAPDGIRGFPR>  
||||| | ||||  
WNVcAa KPGGPGKSRVNNMLKRGMPR

5. Ebola glycoprotein  
5. EbolaGlyc  
[ 39 ]  
WNVcAa

6. Rubella capsid protein  
6. Rubellaca  
[ 38 ]  
WNVcAa

570 580 590  
LQLFLRATTELRTESILNRK-AID>  
| | | | | | | | | |  
LLAFFRFTAIAPTRAFLDRWRGVN

270 280 290 300 310  
RSARHPWRI-R-FCAPQAFIAG-LLIATVAVGTAR-AGLQP-RADMAAPPTL>  
| | | | | | | | | |  
RAVLDRWRGVNKQTAMKHLISFKELGTLTSAINRRSSKQKKRGKGTGIAM

MSKKPGGCKSRVAVNMLKRGMPVLSLIGLKRAMLSDLIDGKGPFRFVIALAFTFTATPRAVLDRWGVNQTAMKHLISFKKELGTITSAINRRSSKQKRGKGTGTAVMIGLITASVGA

WNV Caa

wNV Caa

wNV Caa

YNVCaa

INV Caa

130  
DSFKKGLPR>  
| | | | |  
NMLKRGMPR

30  
TGALLLQGMIAAVDT>  
|| || || || || || || ||  
TGIAVMIGLIASVGA

```

S      E
|      |
100    | 110    120    130    | 140
QOTEDIROVLREMDGFTTLKENIM-RFWRSPNPGSWSCQVLLALL>
| | | | | | | | | | | | | | | | | | | | | |
KOTAMKHLLSFKKELGTLTSAINRRSSKOKRRGKGTGTAVMIGLI

```

40  
FRRELDALGHEL>  
||||||| |  
FKKELGTLTSAI

Search Analysis for Sequence: HIV-1 89.6 VpraaMatrix: pam250 matrix  
 Search from 1 to 96 where origin = 1  
 Date: June 15, 2001  
 Time: 19:57:09  
 Maximum possible score: 515

Database: UserFolder; Alignment-AC6/01

HIV-1 89.6 MEQAPEQCPQREPYNDWTEILLEELKNEAVRHPPIWLSLQGHVYETDWTGVEALTRILQQLFTFHFICRISRGIGIIQRRRTNGASKS

1. p230 nonstructural protein/ Sindbis virus

1. p230nont  
[ 50 ]  
HIV-1 89.6

## 2. West Nile Virus capsid protein

HIV-1 89.6

	70	80	90	100	110
EWRGVNKQTA-MKHLISFKELGTLTSAINRRSSKQKRGGKTG>					
TWTGVEALIRILQLLFHFRIGRHSRIGLIIQRRTNGASKS					

### 3. Cucumovirus 2A protein

10  
DFHRSYIRDRA>  
||| |||||  
RHSRIGIQQRRT